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Features

SB-DN-MR0410 Relay Module which embedded 16A Magnetic Latching Relay Unit . There is no power consumption and it has a long life time. manual control switches are available for each channel.

- 4 channels relay output
- Maximum 4 separate area
- Each area has 8 scenes, Maximum scene running time is 60 minutes
- Each area has 2 sequences, each sequence has 4 steps
- Each channel has Protection Delay time after Turn OFF —[0-60 minutes]
- Each channel has Delay time for Turn ON— [0-25 seconds]
- Each channel has LED Indicator and manual Control switch
- It is optional setting of choosing a preset scene or back to previous scene when power on again after power off

Important Notes

- Bus cable- HDL Bus/KNX Cable, 0.8mm Single Core Copper cable
- Bus Connection Series connection (hand by hand)
- Connect checking-Check all connection after installation
- Output Channel Maximum current of each channel is 10A
- Output channel The following table shows the recommended Power for each channel when connect to different type of load. And for each channel it is recommended to connect 10A MCB.
- Load type and recommended Power

Motor: 1HP (1HP=746W)

Incandescent Lamp: 1600W
Inductive Transformer: 1000 W
Electric Transformer: 800 W
230V Halogen Lamp: 1600 W

Mercury Vapor Lamp

*No Compensation Lamp: 1000 W *Parallel Compensation Lamp: 800 W

Fluorescent Lamp T5 / T8

*No Compensation Lamp 1000 W
*Parallel Compensation Lamp: 800 W
*DUO Lamp Series: 800 W
*No Compensation Lamp: 1000 W
*Parallel Compensation Lamp: 800 W

Installation Step

- 35mm Din Rail Installation, inside DB Box
- Make remark for each output connection cable, recognize high power and low power cable
- Connect the load and HDL Bus
- Check the HDL Bus connection, avoid any mistake
- Check if there is any short circuit in output connection cable

Product Specifications

Bus working Voltage : DC24V

Static BUS Power Consumption: 15mA/DC 24V
 Dynamic BUS Power Consumption: 40mA/DC 24V

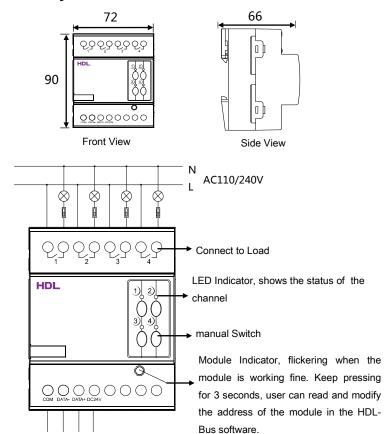
Maximum output channel current : 10A

Relay Unit Electrical Life time: >60000次(Resistance Load)

Relay Unit Capacitance Load : <150µF
 Protection : Connect Extra 10A MCB

Certification : CE

Layout and Dimension



HDL-Bus Definition for cable

	CAT5/CAT5E	Bus	HDL Bus/KNX Cable	
	Brown White/ Orange White	COM	Black	
	Blue white/ Green White	DATA-	White	
	Blue/Green	DATA+	Yellow	
	Brown/Orange	DC24V	Red	



HDL-BUS

Safety Attention

- Maximum Current in each channel is 10A
- 10A MCB for each channel protection is must
- Screw down strength is less than 0.4Nm
- Power cable : AC in: 2.5mm² 4mm²
- Load Cable : 2.5mm² 4mm²
- Installation Position: Distribution Box (DB)
- Do not make wrong connection on Bus interface, it will damage the Bus interface this module
- Do not get AC240V voltage into Bus wire , it will damage all of devices in system
- Assure a good ventilation circumstances
- Rain, liquid, and aggressive gas are not allowed to close to it

Product Specifications

• Working Temperature : 0~45°C

Working Relative Humidity: 20%~90%
 Storage Temperature: -40°C~+55°C
 Storage Relative Humidity: 10%~93%

Protection : IP20